

CLAIMS

1. A seat for two-wheeled vehicles, such as bicycles, motorcycles and scooters, comprising a relatively soft saddle support (1) to bear the rider and a supporting structure (2, 3, 4 and 5) by means of which said support is connected to the seat-carrying upright (11) of the vehicle, whereby between said supporting structure (2, 3, 4, 5) and said upright (11) there is provided an oscillatable pin (10) and means suitable for preventing the oscillation of said pin (10) being provided between said pin (10) and said supporting structure (2, 3, 4, 5) characterized in that said pin (10) is extending in the longitudinal axis of the seat around which axis said relatively soft saddle support (1) can oscillate.
2. A seat in accordance with claim 1, comprising also means for adjusting the amplitude of the oscillation around the axis of said pin.
3. A seat in accordance with claim 1 or claim 2, wherein said pin (10) is rigidly connected to said upright (11) and rotably connected to said supporting structure (2 and 3).
4. A seat in accordance with claim 1 or claim 2, wherein said pin (10) is integral with said supporting structure (2, 3) and is connected to said upright (11) in such a manner as to be able to slide and turn.
5. A seat in accordance with claim 4, wherein a tubular guide (31) within which said pin (10) is mounted in such a manner as to be able to slide and turn is integrally connected to said upright (11), means (37, 38, 42, 54, 55, 59) being provided for controlling the sliding of said pin within said tubular guide.
6. A seat in accordance with claim 5, wherein said means for controlling the sliding of said pin within said tubular guide comprise pulling means (37, 38, 42, 54, 55)

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that extend between said upright and at least one end of said pin and are connected to a remote actuation device (39).

5 7. A seat in accordance with claim 5, wherein said pin is threaded and said tubular guide is threaded on the inside, manual actuating means (59) being provided at one end of said pin to impart an angular displacement to said pin capable of causing the pin to slide within said guide.

10 8. A seat in accordance with any one of the preceding claims, wherein said means for locking the oscillation comprise an element (15) that slides on the supporting structure (3) and a seating (14a) integral with said pin (10), said sliding element being positioned on said structure in such a way as to be aligned with said seating  
15 to become engaged within it to lock the oscillation or to become disengaged therefrom to permit the oscillation.

9. A seat in accordance with any one of Claims 4 to 7, wherein said means for locking the oscillation of the pin also make it possible to regulate the amplitude of the  
20 oscillation and comprise at least one sleeve (40) integral with said tubular guide (31) and coaxial with it and at least one sleeve (41) integral with said pin and coaxial with it, the opposed ends of said sleeves being provided with complementary inclined surfaces (40a, 41a) that  
25 gradually become engaged with each other and reduce the oscillation possibility as the distance between them becomes smaller until they eventually come to constitute a perfect fit that locks every possibility of one end rotating with respect to the other.

30 10. A seat in accordance with claim 9, wherein a first sleeve (40) with an inclined end (40a) is coaxially fixed to one end of said tubular guide (31) and a second sleeve

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(41) with a complementary inclined end (41a) is counterposed to the first and coaxially integral with one end of said pin (10), said pull wire (42) being connected to the other end of said pin and elastic means (43) being  
5 interposed between this latter end of said pin and the end of said tubular guide (31) opposite to the one to which said first sleeve (40) is attached.

11. A seat in accordance with Claim 3, wherein said supporting structure has parts (2, 3) integral with said  
10 saddle support (1) and parts (25) integral with said upright (11), the part integral with said upright being provided with longitudinal linkage elements (25) rigidly connected to said upright and converging onto two  
15 coaxially opposed pins (23, 24) that are rotatably connected to the part of the supporting structure rigidly connected to said relatively soft support.

12. A seat in accordance with any one of Claims 4 to 7, wherein said means for locking the oscillation of the pin also make it possible to regulate the amplitude of the  
20 oscillation and comprise two sleeves (50, 51) with inclined ends (50a, 51a) coaxially fixed to the two ends of said tubular guide (31) two corresponding sleeves (52, 53) with complementary inclined ends (52a, 53a) being coaxially fixed to the ends of said pin (10), there being provided a  
25 remote manually actuated tension cable (54, 55) and has its ends connected to the ends of said pin, said tension cable being slidably supported said upright, so that pulling said tension cable in one direction or the other will cause said pin to slide relatively forward or  
30 backward until it reaches the two limit positions of complete forward displacement or complete rearward displacement of the seat in which the respective pairs of

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the inclined ends of said sleeves constitute perfect fits, thus preventing any relative rotation, whereas in the intermediate position relative rotation is possible with an increasing amplitude that depends on the distance  
5 between said inclined ends of said sleeves.

13. A seat in accordance with claim 12, wherein from said pin (10) there extends a tooth (57) that projects within a longitudinal slot provided on said tubular guide (31) capable of becoming engaged with a vault delimited by an  
10 arcuate portion (30a) bridging said tubular guide to prevent the rotation of said pin in an intermediate position between said extreme forward position of the seat and its extreme rearward position.

14. A seat in accordance with claim 1, wherein said pin  
15 (10) is slidably and rotatably engaged in a longitudinal groove (62) integral with said supporting structure (2), there being provided, integral with said structure (2), pulling means (63, 64) for controlling the sliding in both directions and means (65) for locking the oscillation.

20 15. A seat in accordance with claim 14, wherein said means for controlling the oscillation comprise a radial rib (66) arranged between two walls (68, 71, 72) situated at a gradually variable distance from each other.

16. A seat in accordance with claim 15, wherein said walls  
25 situated at a gradually variable distance from each other consist of a flared groove (67) of a substantially triangular section provided in a small block (68) that can slide with respect to said pin, said rib (66) being engaged in said groove.

30 17. A seat in accordance with claim 15, wherein said walls situated at a gradually variable distance from each other consist of the ends of two setting screws (72, 73) axially

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facing to each other and screwed into walls integral with said structure (2).

18. A seat in accordance with Claim 14, wherein said means for controlling the oscillation comprise a longitudinal  
5 groove (73) provided on said pin (10) and a prismatic tooth (74) of a substantially triangular section that can gradually become engaged within said groove (73).

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